

APPENDIX-(II)

Declaration of Dr. Friedrich Jonas
Including particle size distribution data obtained from a dispersion prepared in accordance with Example 1 of Krafft et al.



PATENT APPLICATION Mo-6935 LeA 34,765

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF)) GROUP NO.: 1712)
FRIEDRICH JONAS ET AL		
SERIAL NUMBER: 10/057,027) EXAMINER:) DANIEL S. METZMAIER
FILED:	JANUARY 24, 2002))))
TITLE:	ELECTROLUMINESCENT ARRANGEMENTS	

DECLARATION UNDER 37 C.F.R. §1.132

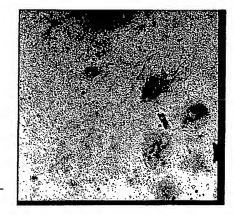
I, Dr. Friedrich Jonas, residing at Krugenofen 15Aachen, Germany, declare as follows:

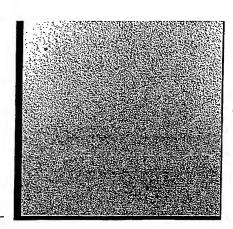
- 1) that I have the following technical educations and experience:
 - a) I am a chemist having studied at the RWTH Aachen, Germany, from 1971 to 1980
 - b) I received the degree of PhD at the RWTH Aachen in the year of 1980
- c) I am employed by Bayer AG in the central research department since May 1980 and by H.C.Starck since 2001 in particular with regard to conductive polymers.
- 2) that the following tests were carried out under my immediate supervision and control:

A polyethylenedioxythiopnene / polystyrenesulfonate (PEDT / PSS) dispersion (having a theoretical ratio of PEDT: PSS of 1:3,6) was prepared according to Example 1 at column 9, line 60 through column 10, line 59 of United States Patent No. 5,370,981 (**Krafft et al**). One drop of the dispersion was placed on a glass microscope slide, and a photomicrograph was taken thereof at a magnification of 100X (Picture-1). Upon visual observation of Picture-1, the presence of coarse particles having sizes in excess of 100 micrometers (100,000 nanometers) is evident. A dispersion containing such coarse particles would lead to short circuits if used to prepare a hole injection layer in an organic electroluminescent devise (e.g., as described in Applicants' present patent application, U.S. Pat. Application No. 10/057,027, referred to herein as "Mo-6935").

The comparative dispersion prepared in accordance with Example 1 of Krafft et all was found to have a d_{40} particle size of 62.6 nanometers, and a d_{90} particle size of 3156 nanometers. The particle sizes being measured by a ultracentrifuge method in accordance with that described at page 4, lines 4-6 of Applicants' specification.

For purposes of comparison, a photomicrograph (Picture-2) of a PEDT / PSS dispersion according to Mo-6935 (having a ratio of PEDT : PSS of 1:20, and a d_{90} of 34,9 nm) was obtained in substantially the same manner as Picture-1. At a magnification of 100X, no coarse particles of 100 micrometers or greater are observed.





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I further declare that all statements made herein are of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of pending Application Serial Number 10/057,027 or any patent issuing thereon.

Signed at Lever use this Mill day of

Inventor name